T0024O" S626E860

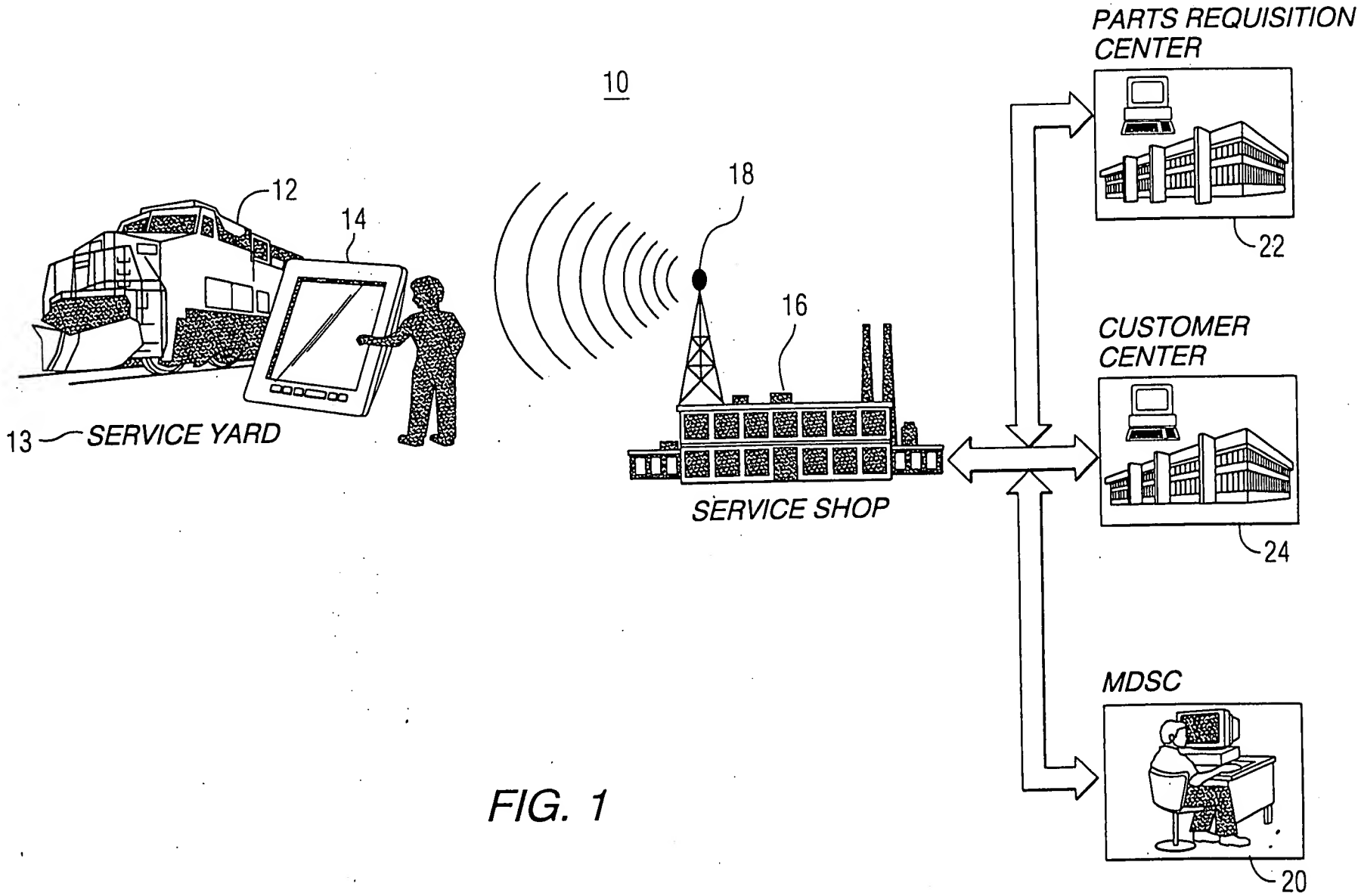

FIG. 1

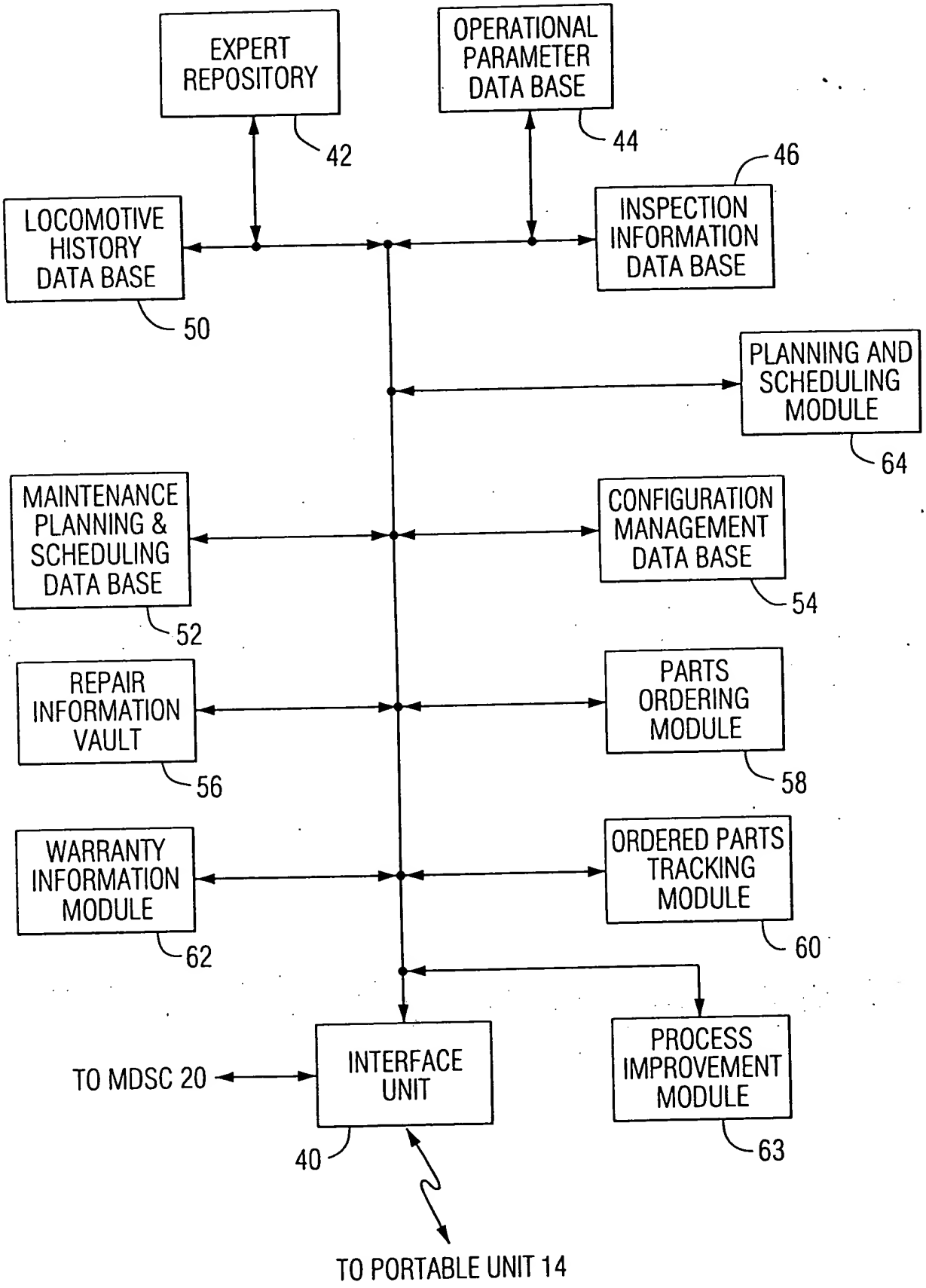
EXPERT REPOSITORY
42
OPERATIONAL PARAMETER DATA BASE
44
46
LOCOMOTIVE HISTORY DATA BASE
50
INSPECTION INFORMATION DATA BASE
PLANNING AND SCHEDULING MODULE
64
MAINTENANCE PLANNING & SCHEDULING DATA BASE
52
CONFIGURATION MANAGEMENT DATA BASE
54
REPAIR INFORMATION VAULT
56
PARTS ORDERING MODULE
58
WARRANTY INFORMATION MODULE
62
ORDERED PARTS TRACKING MODULE
60
TO MDSC 20
INTERFACE UNIT
40
PROCESS IMPROVEMENT MODULE
63
TO PORTABLE UNIT 14

FIG. 2

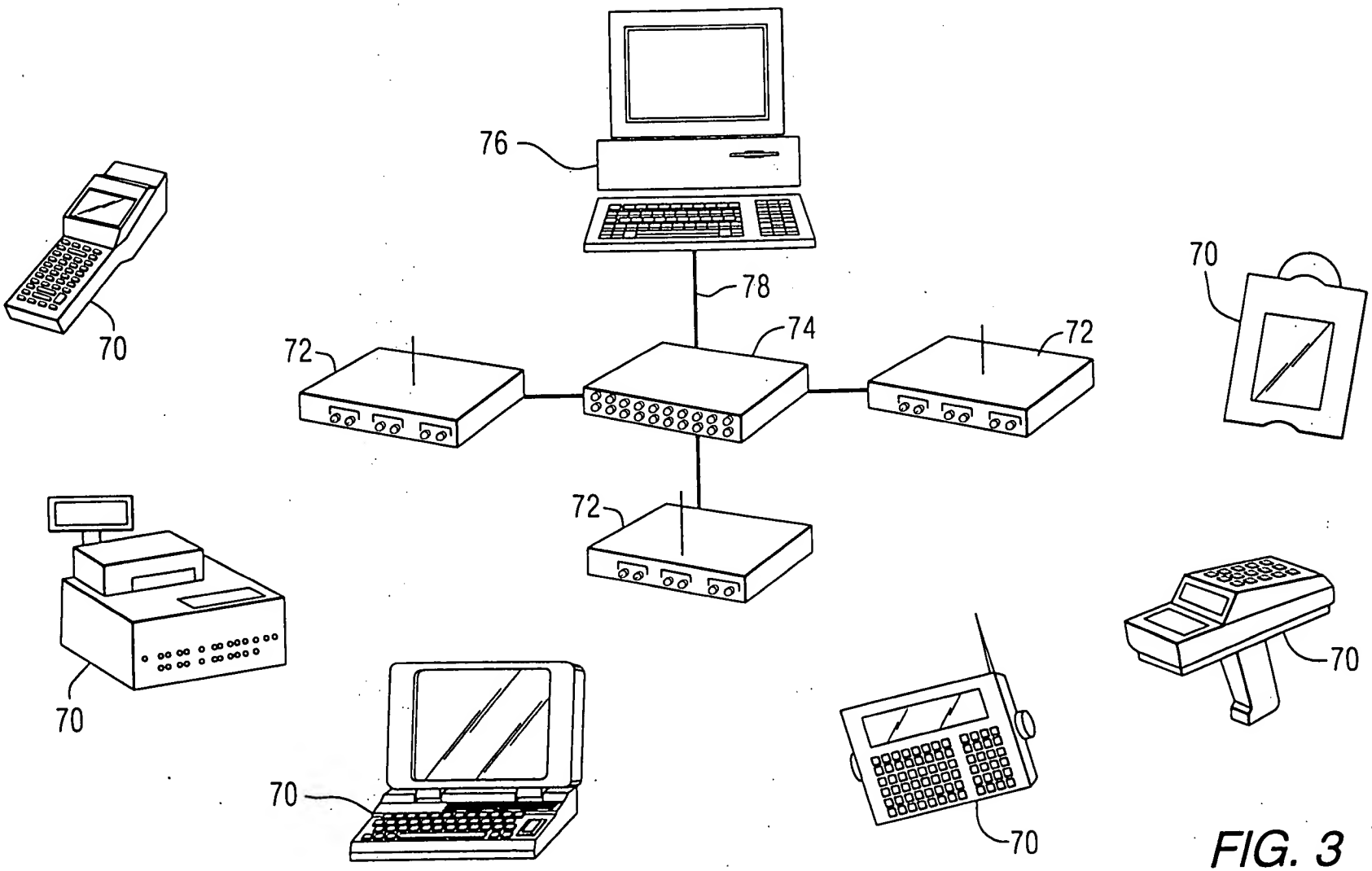

FIG. 3

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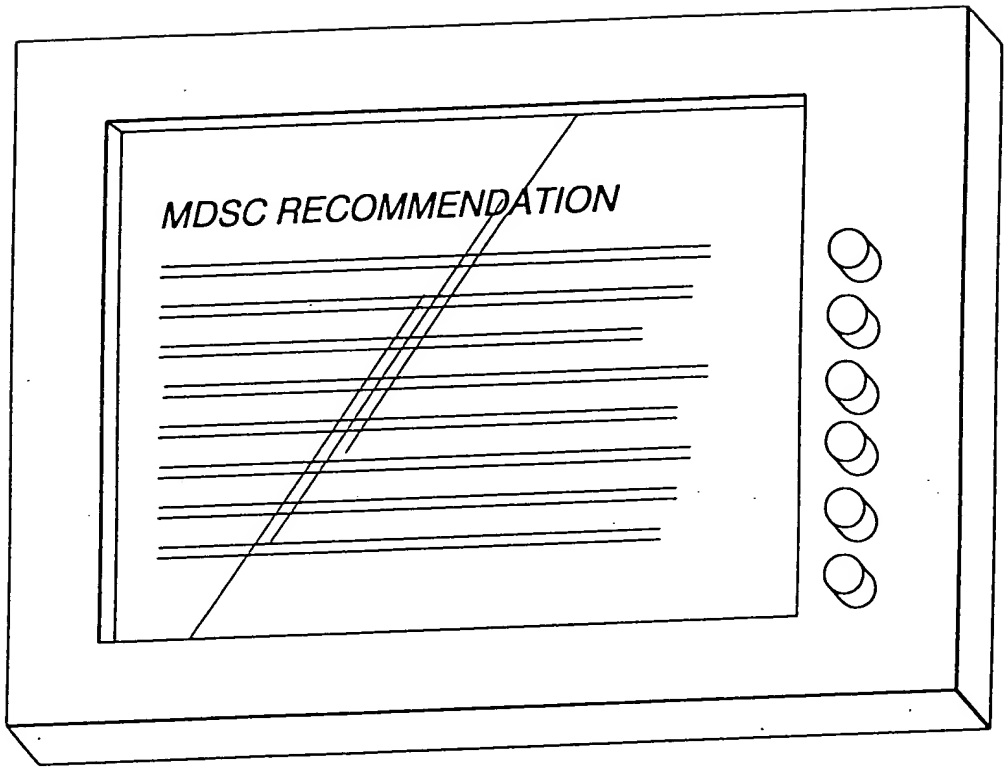
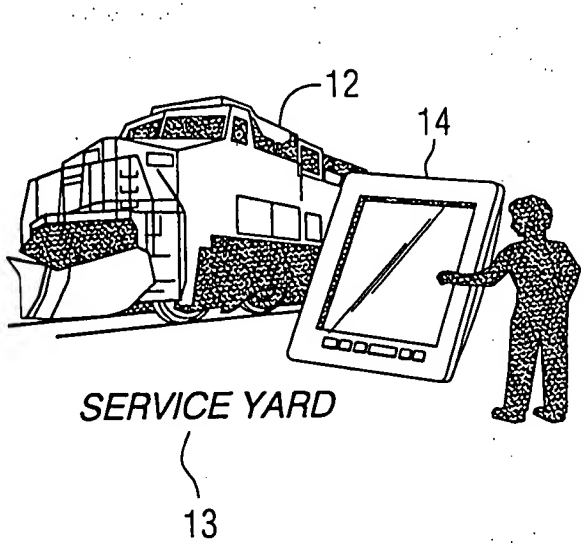
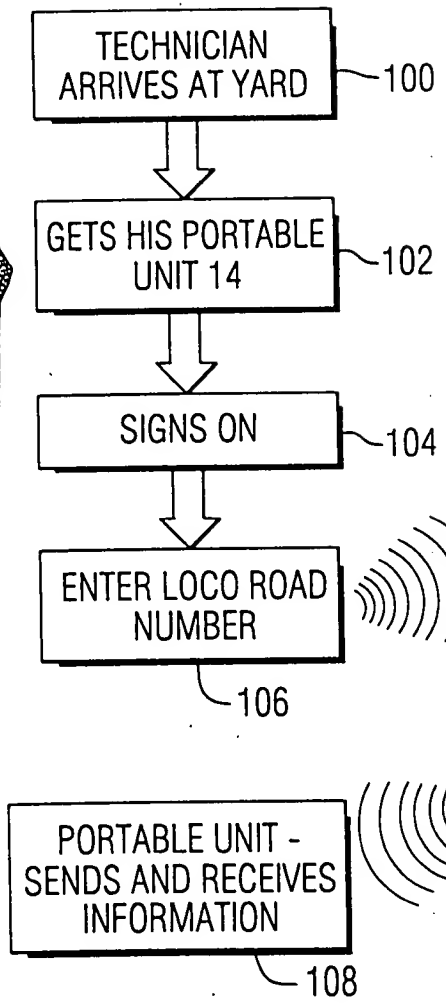


FIG. 4


12
14
SERVICE YARD
13


TECHNICIAN ARRIVES AT YARD
100
GETS HIS PORTABLE UNIT 14
102
SIGNS ON
104
ENTER LOCO ROAD NUMBER
106
PORTABLE UNIT - SENDS AND RECEIVES INFORMATION
108

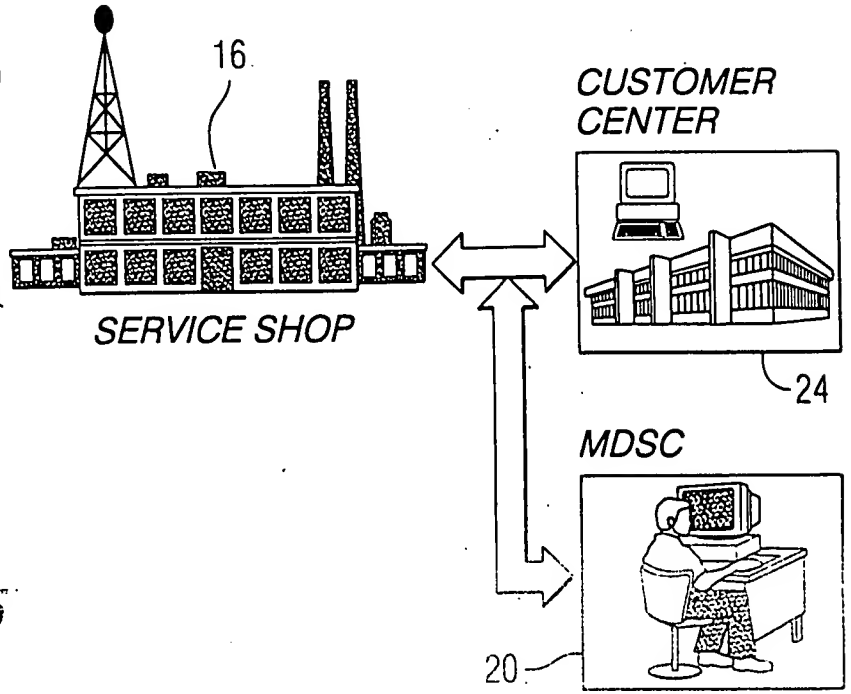

16
SERVICE SHOP
CUSTOMER CENTER
24
MDSC
20

FIG. 5

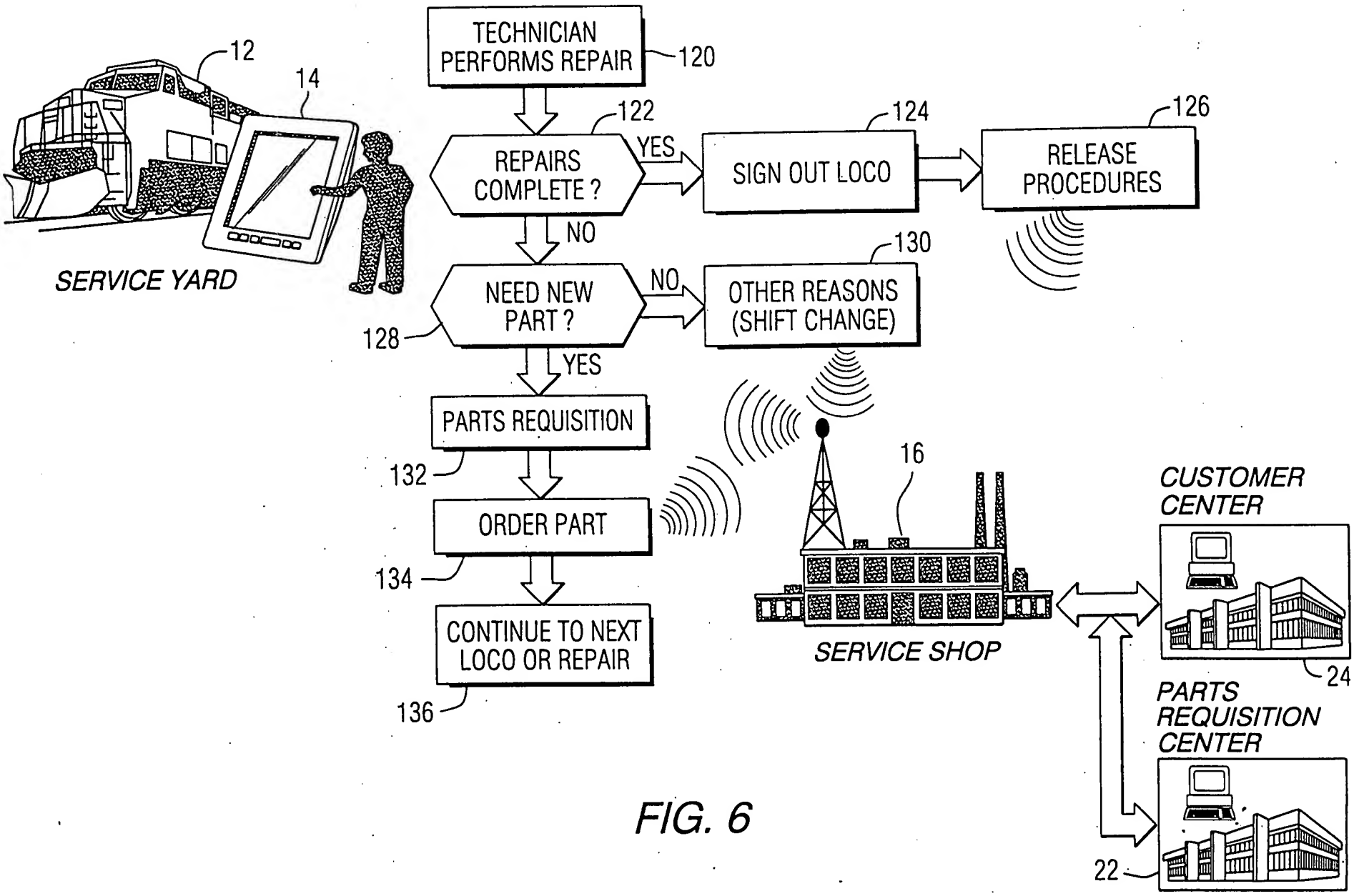

12
14
SERVICE YARD
TECHNICIAN PERFORMS REPAIR
120
122
REPAIRS COMPLETE ?
YES
NO
124
SIGN OUT LOCO
126
RELEASE PROCEDURES
130
NEED NEW PART ?
NO
OTHER REASONS (SHIFT CHANGE)
128
YES
PARTS REQUISITION
132
ORDER PART
134
CONTINUE TO NEXT LOCO OR REPAIR
136
16
SERVICE SHOP
CUSTOMER CENTER
24
PARTS REQUISITION CENTER
22

FIG. 6

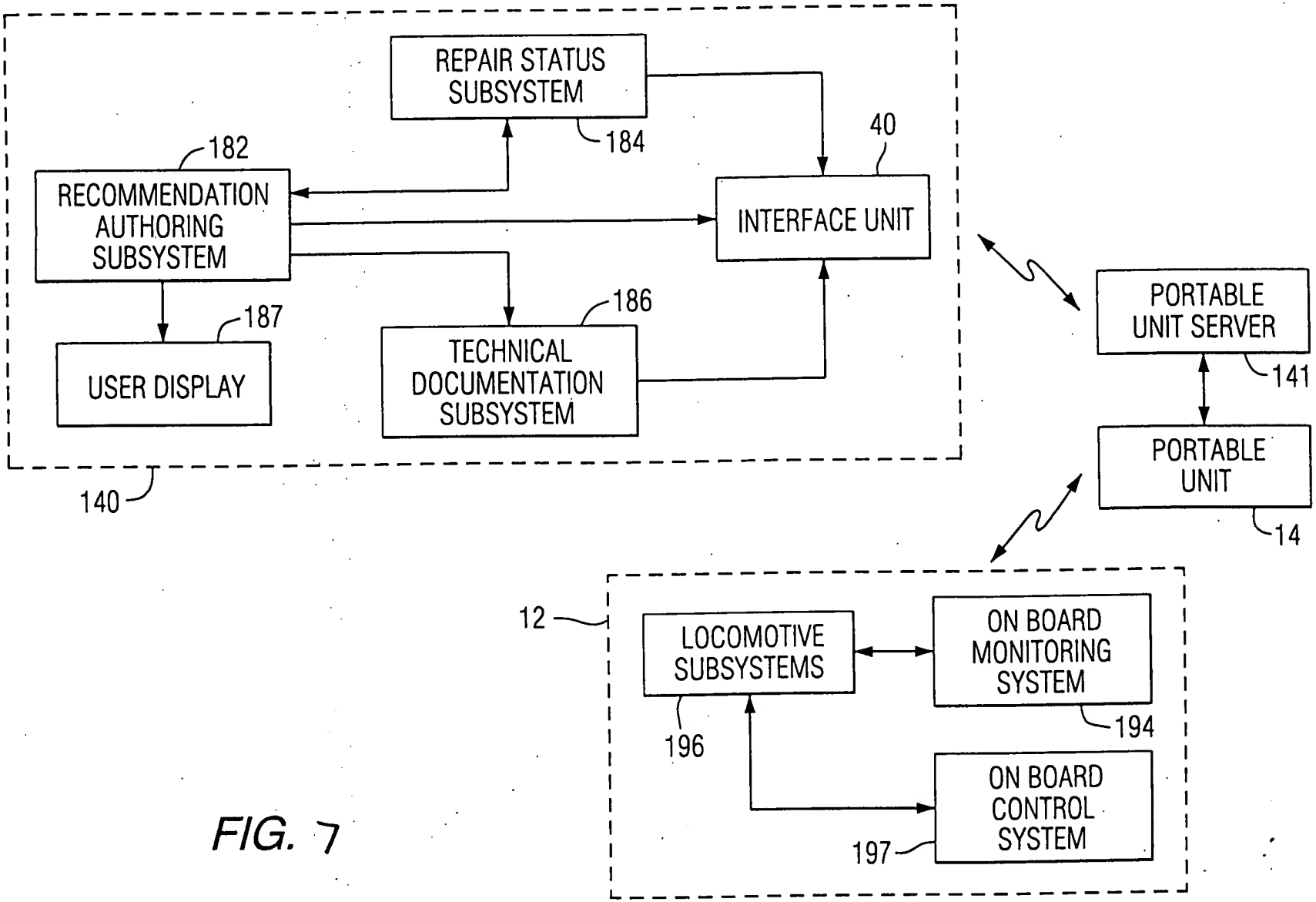

REPAIR STATUS SUBSYSTEM
184
40
182
RECOMMENDATION AUTHORING SUBSYSTEM
INTERFACE UNIT
187
186
USER DISPLAY
TECHNICAL DOCUMENTATION SUBSYSTEM
140
PORTABLE UNIT SERVER
141
PORTABLE UNIT
14
12
LOCOMOTIVE SUBSYSTEMS
ON BOARD MONITORING SYSTEM
194
196
ON BOARD CONTROL SYSTEM
197

FIG. 7

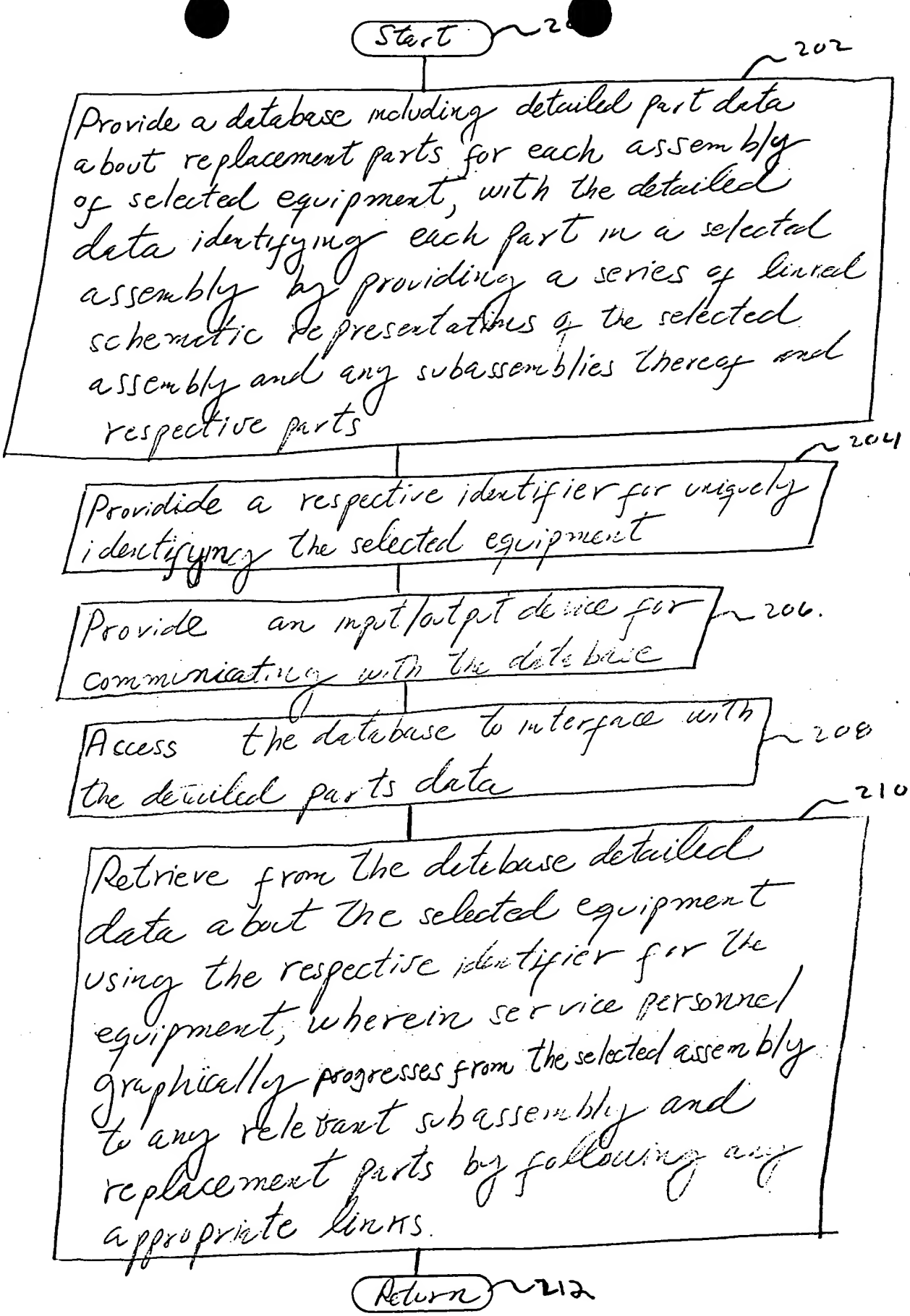


FIG. 8

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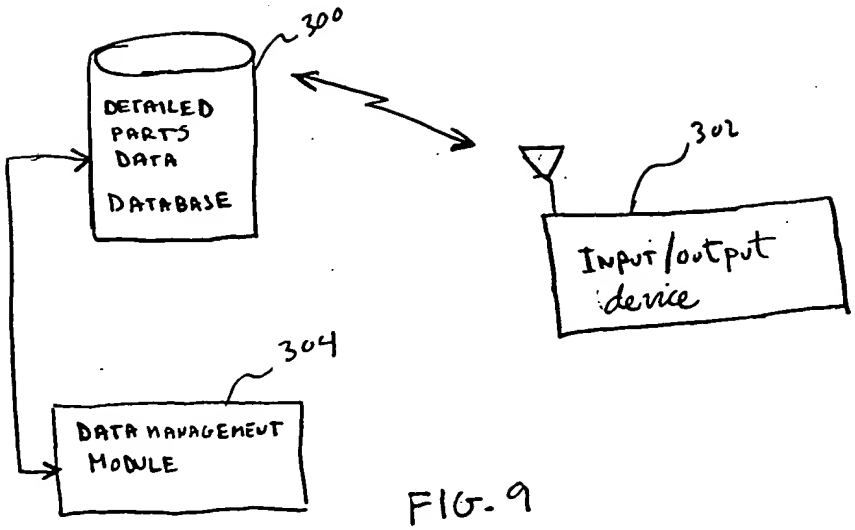

FIG. 9

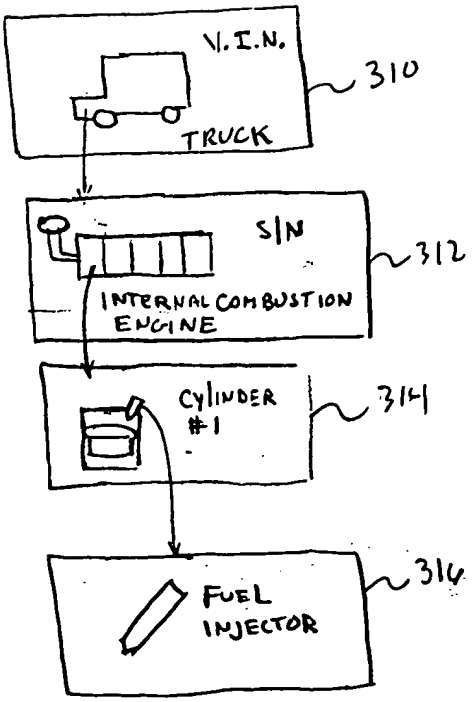

FIG. 10

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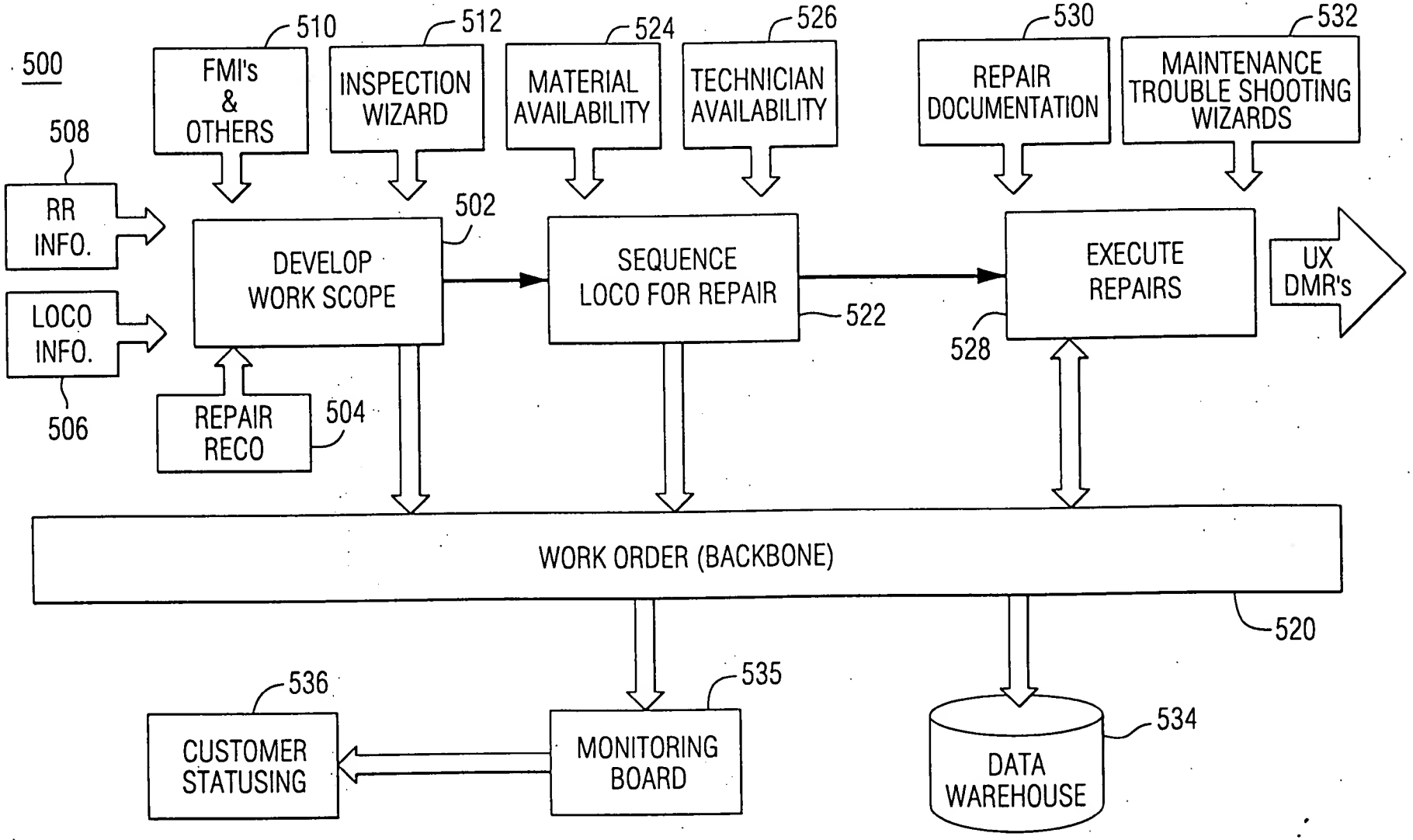
500
508
RR INFO.
LOCO INFO.
506
510
FMI's & OTHERS
512
INSPECTION WIZARD
524
MATERIAL AVAILABILITY
526
TECHNICIAN AVAILABILITY
530
REPAIR DOCUMENTATION
532
MAINTENANCE TROUBLE SHOOTING WIZARDS
502
DEVELOP WORK SCOPE
SEQUENCE LOCO FOR REPAIR
522
EXECUTE REPAIRS
528
UX DMR's
REPAIR RECO
504
WORK ORDER (BACKBONE)
520
536
CUSTOMER STATUSING
535
MONITORING BOARD
534
DATA WAREHOUSE

FIG. 11